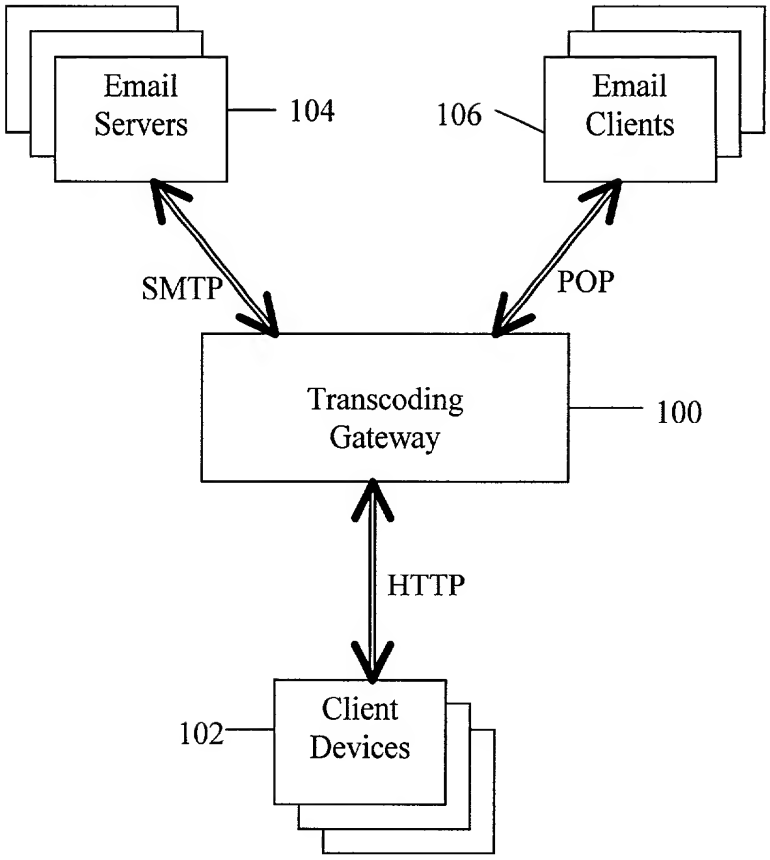
Email Servers
104
106
Email Clients
SMTP
POP
Transcoding Gateway
100
HTTP
102
Client Devices

Figure 1

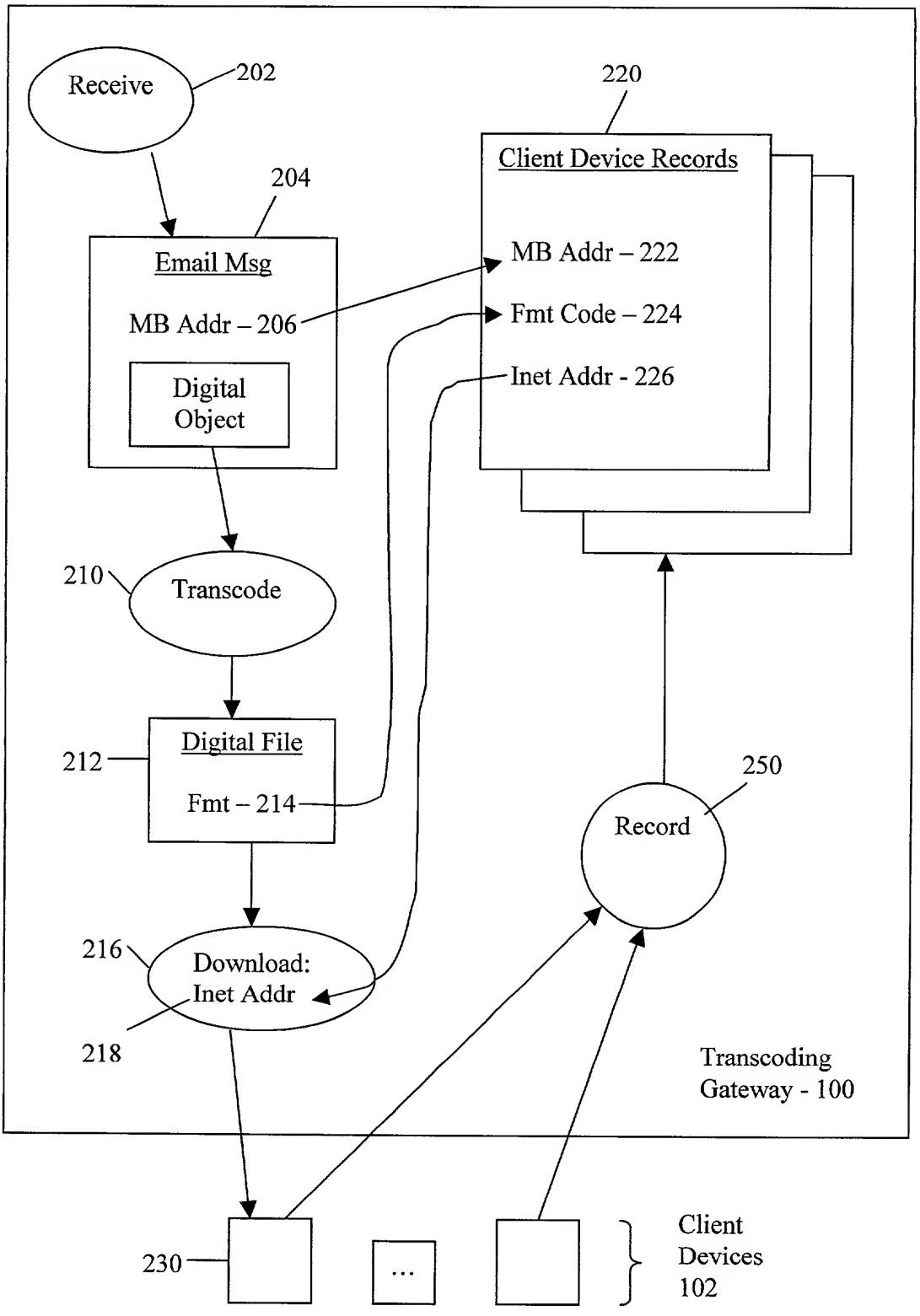
Receive
202
220
Client Device Records
204
Email Msg
MB Addr – 206
Digital Object
MB Addr – 222
Fmt Code – 224
Inet Addr - 226
210
Transcode
Digital File
212
Fmt – 214
250
Record
216
Download: Inet Addr
218
Transcoding Gateway - 100
230
...
Client Devices 102

Figure 1a

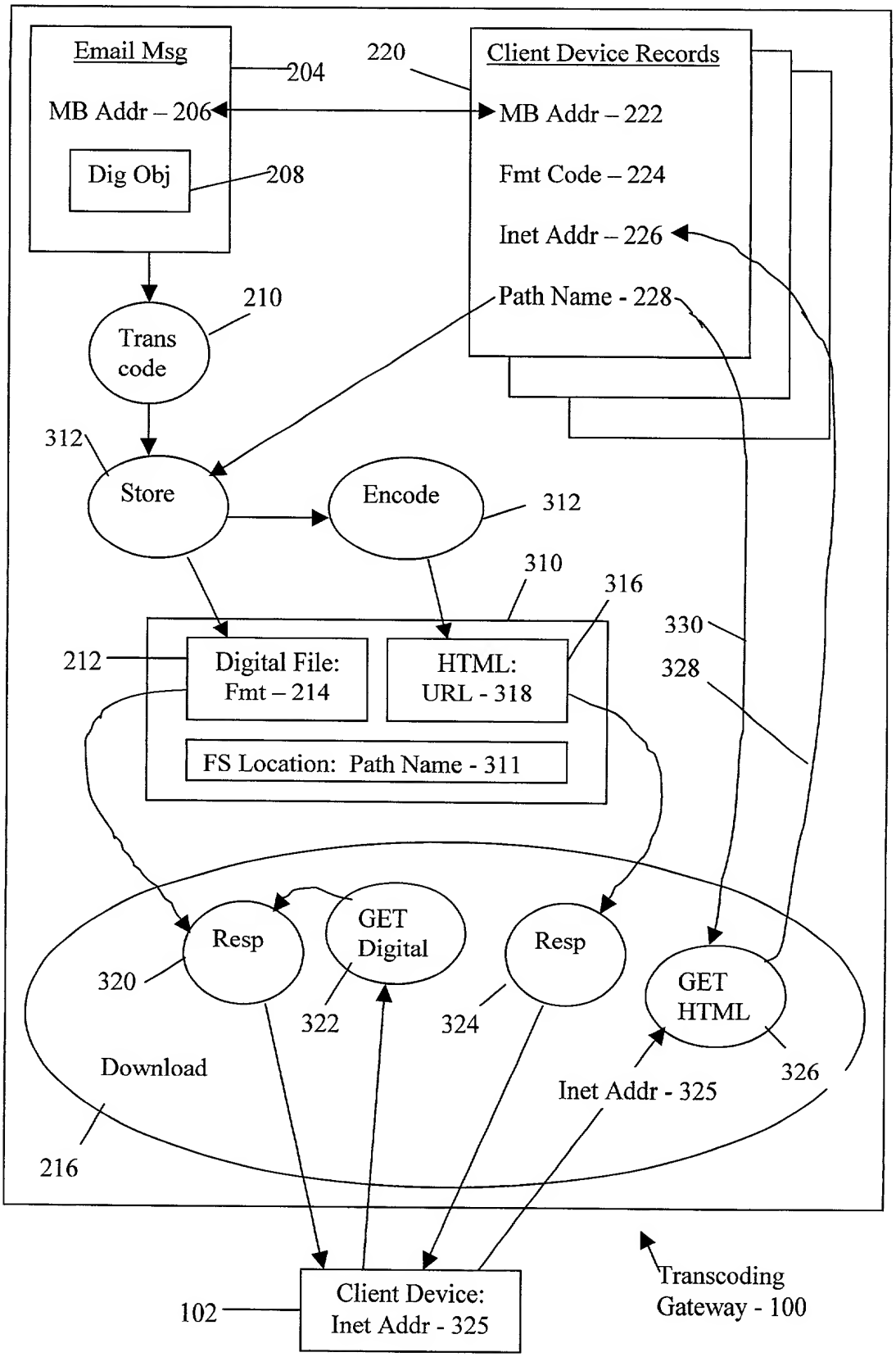
Email Msg
204
220
Client Device Records
MB Addr – 206
MB Addr – 222
Dig Obj
208
Fmt Code – 224
Inet Addr – 226
Path Name - 228
210
Trans code
312
Store
Encode
312
310
316
330
212
Digital File: Fmt – 214
HTML: URL - 318
328
FS Location: Path Name - 311
Resp
GET Digital
Resp
GET HTML
320
322
324
326
Download
Inet Addr - 325
216
Client Device: Inet Addr - 325
102
Transcoding Gateway - 100

Figure 1b

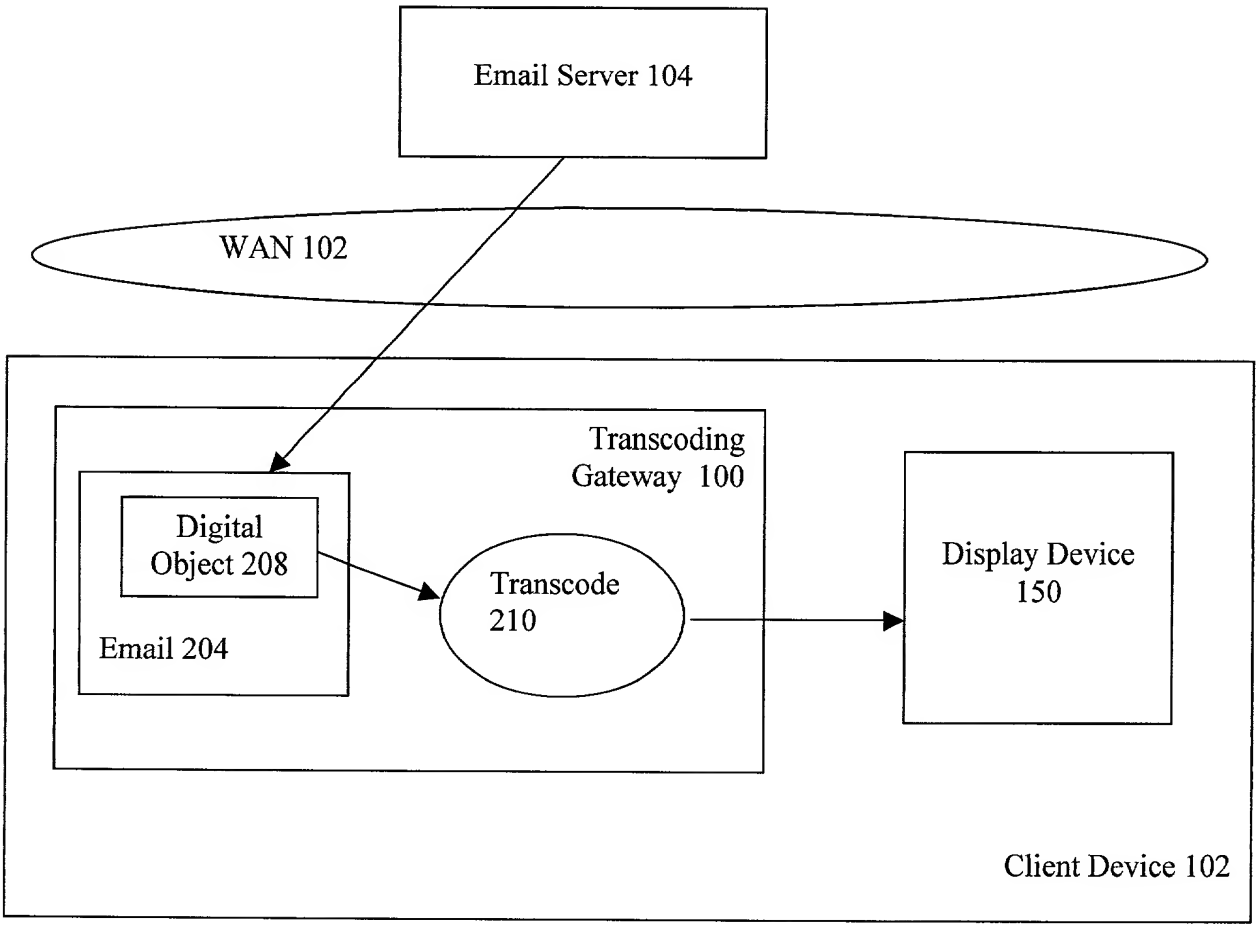
Email Server 104
WAN 102
Transcoding
Gateway 100
Digital
Object 208
Email 204
Transcode
210
Display Device
150
Client Device 102

Figure 2

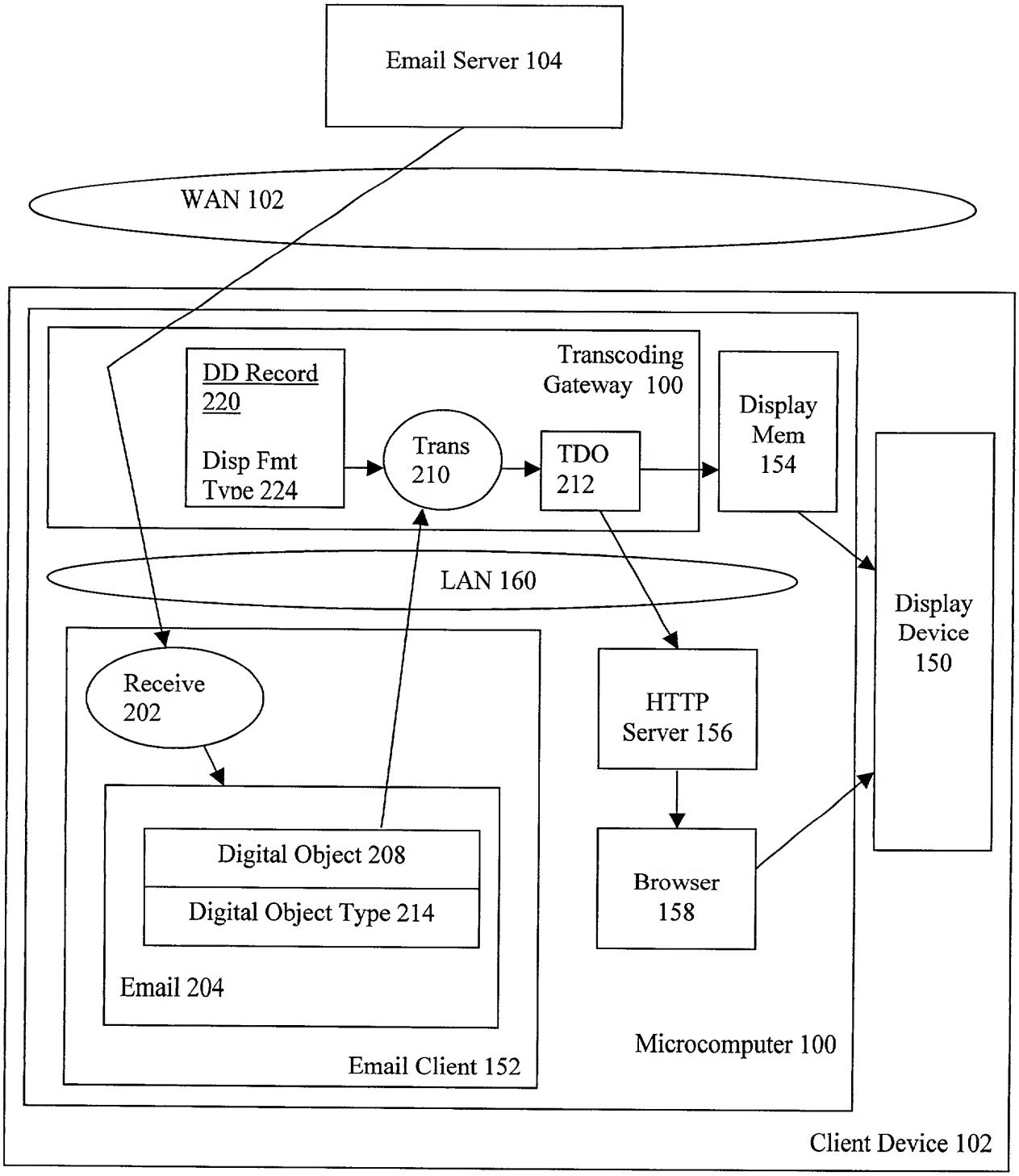
Email Server 104
WAN 102
DD Record 220
Disp Fmt Type 224
Transcoding Gateway 100
Trans 210
TDO 212
Display Mem 154
LAN 160
Display Device 150
Receive 202
HTTP Server 156
Digital Object 208
Digital Object Type 214
Email 204
Browser 158
Email Client 152
Microcomputer 100
Client Device 102

Figure 3

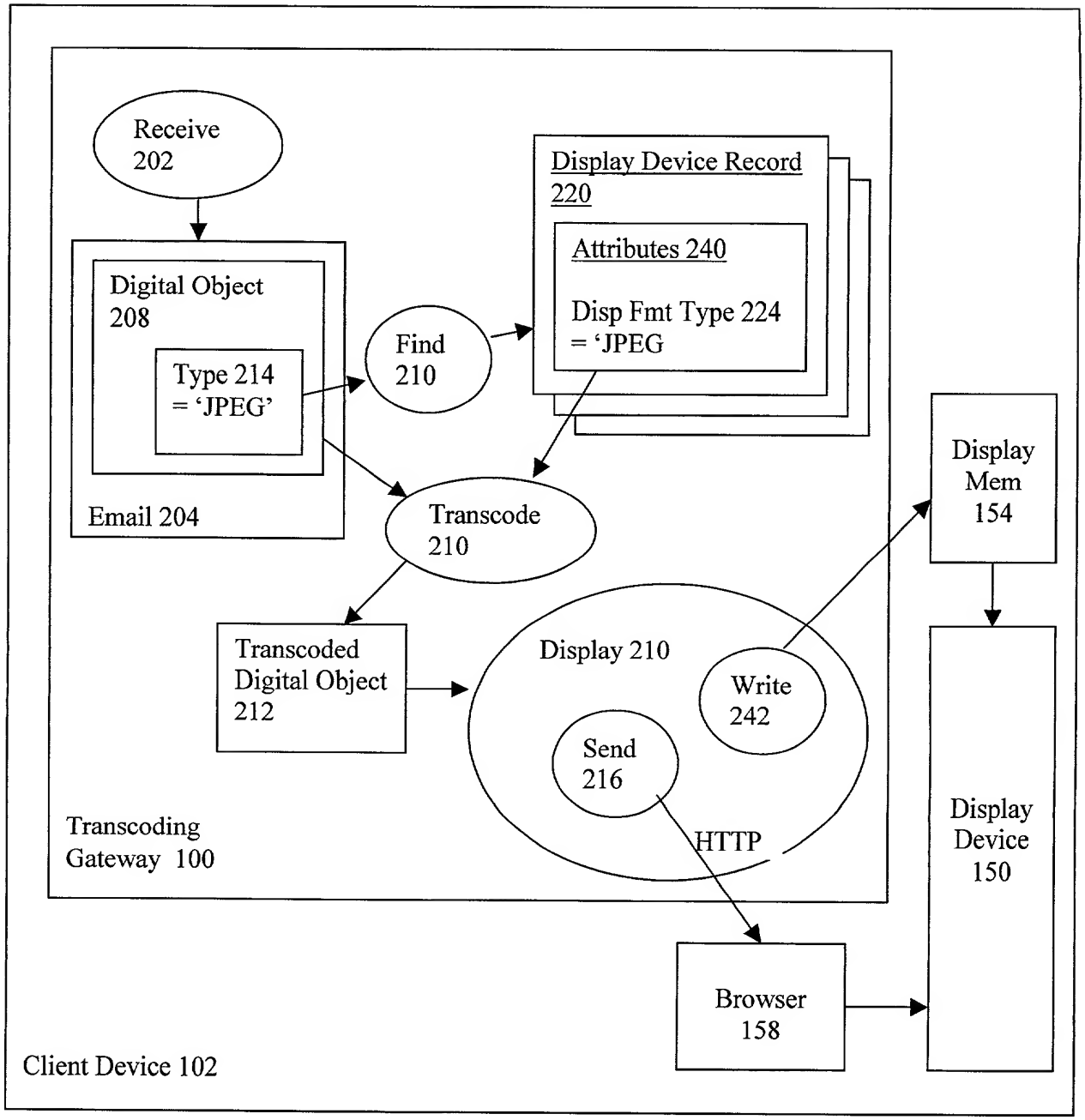
Receive
202
Digital Object
208
Type 214
= 'JPEG'
Email 204
Find
210
Display Device Record
220
Attributes 240
Disp Fmt Type 224
= 'JPEG
Transcode
210
Transcoded
Digital Object
212
Display 210
Write
242
Send
216
HTTP
Transcoding
Gateway 100
Display
Mem
154
Display
Device
150
Browser
158
Client Device 102

Figure 4

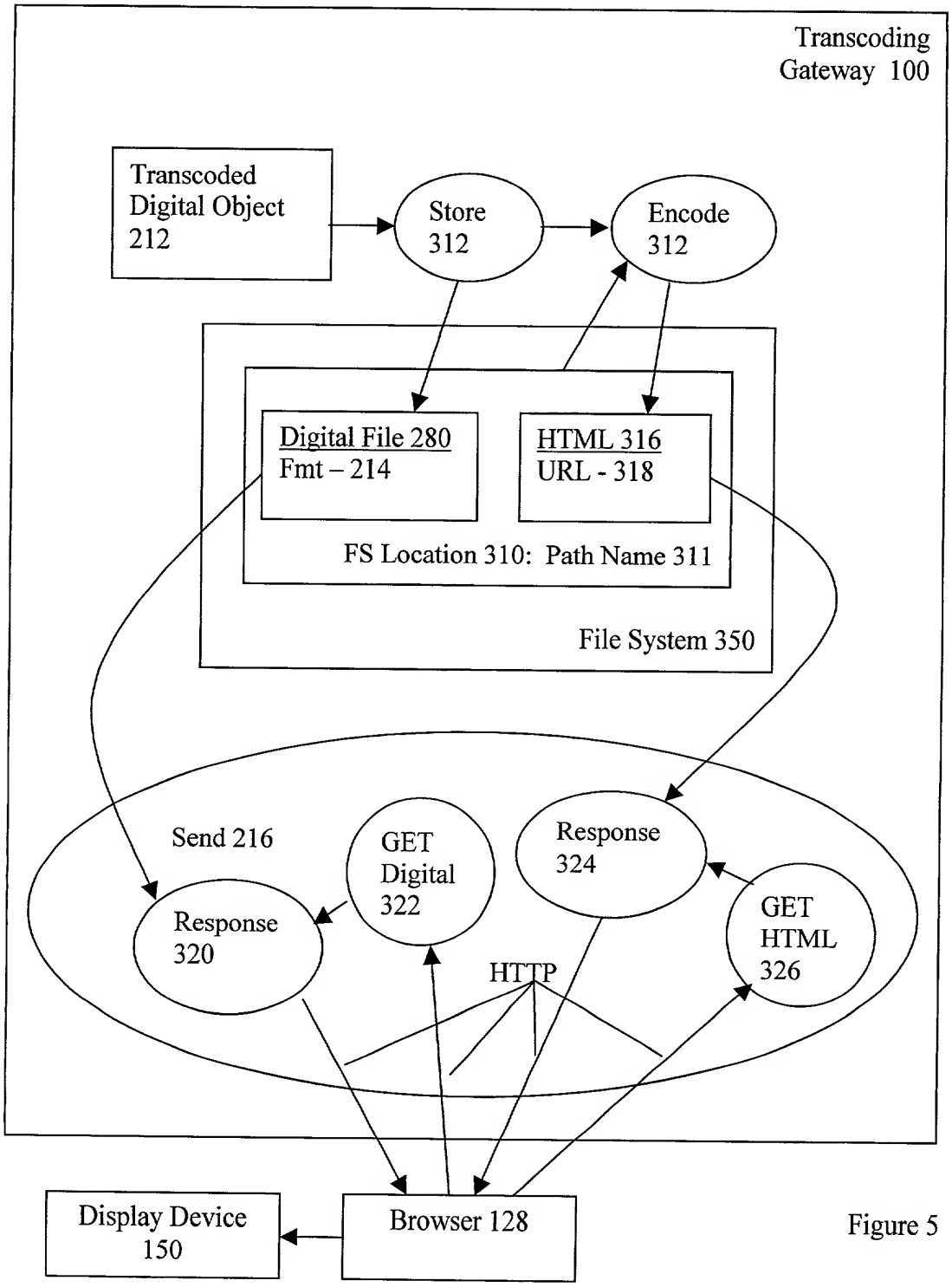
Transcoding
Gateway 100
Transcoded
Digital Object
212
Store
312
Encode
312
Digital File 280
Fmt – 214
HTML 316
URL - 318
FS Location 310: Path Name 311
File System 350
Send 216
GET
Digital
322
Response
324
Response
320
GET
HTML
326
HTTP
Display Device
150
Browser 128

Figure 5

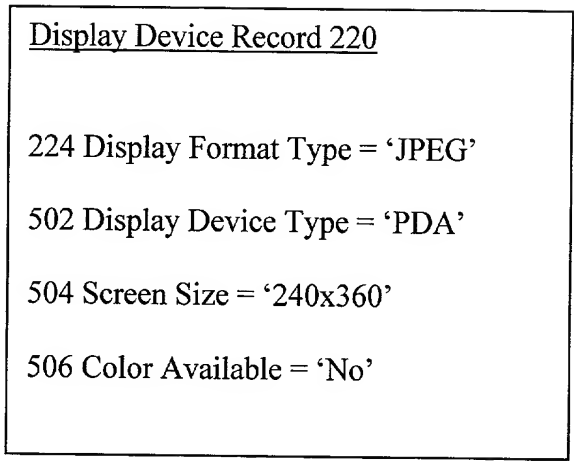

Figure 6

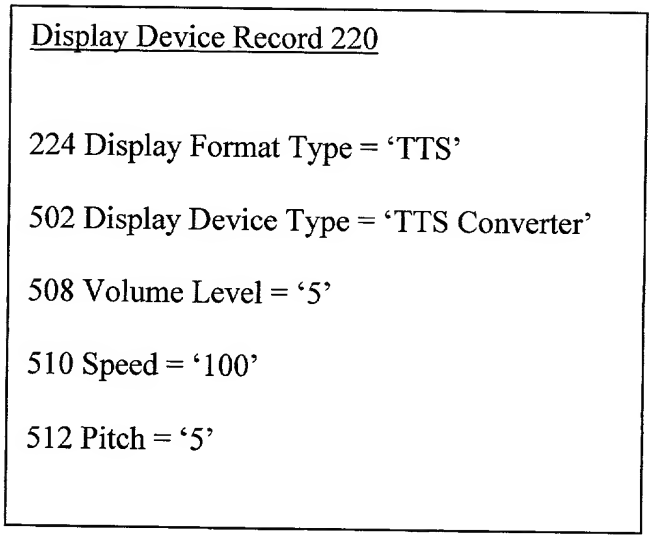

Figure 7

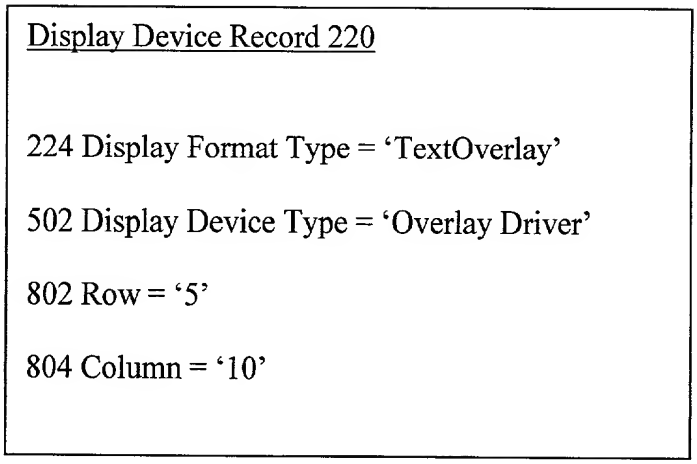

Figure 8

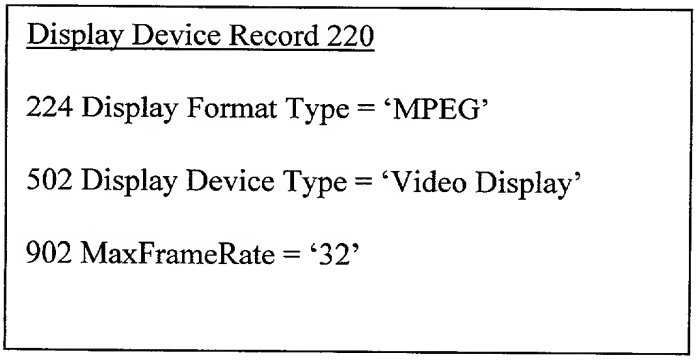

Figure 9

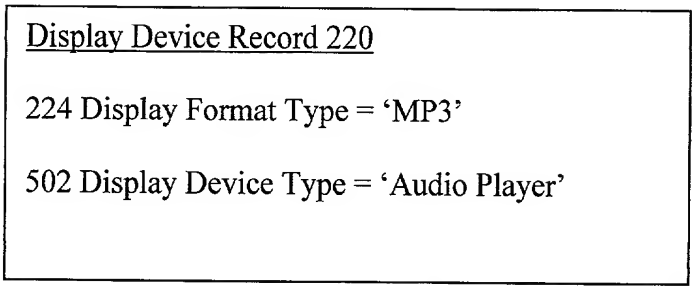

Figure 10

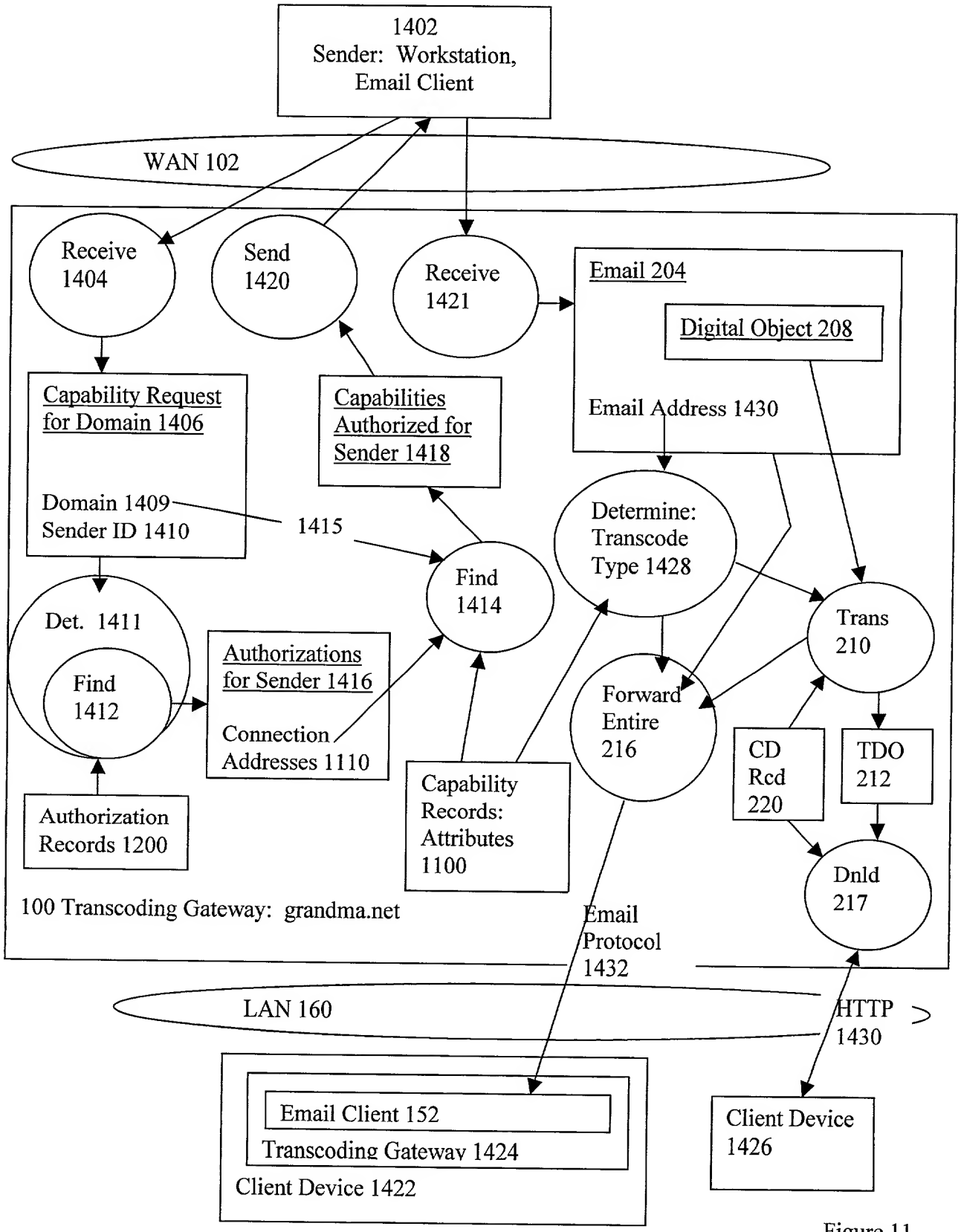
1402
Sender: Workstation,
Email Client
WAN 102
Receive
1404
Send
1420
Receive
1421
Email 204
Digital Object 208
Email Address 1430
Capability Request
for Domain 1406
Domain 1409
Sender ID 1410
1415
Capabilities
Authorized for
Sender 1418
Determine:
Transcode
Type 1428
Find
1414
Trans
210
Det. 1411
Find
1412
Authorizations
for Sender 1416
Connection
Addresses 1110
Forward
Entire
216
CD
Rcd
220
TDO
212
Authorization
Records 1200
Capability
Records:
Attributes
1100
Dnld
217
100 Transcoding Gateway: grandma.net
Email
Protocol
1432
LAN 160
HTTP
1430
Email Client 152
Transcoding Gateway 1424
Client Device 1422
Client Device
1426

Figure 11

Display Capability Records 1100					
Capability ID 1102	Capability Description 1104	Domain 1106	Connection Type 1108	Connection Address 1110	Transcode Type 1111
1150	Video on Grandma's PC	grandma.net	Email	grandma@ grandma.net	Forward
1152	Audio on Grandma's PC	grandma.net	Email	grandma@ grandma.net	Forward
1154	Video on Grandma's TV	grandma.net	Email	gm-tv@ grandma.net	Forward
1156	Audio on Grandma's TV	grandma.net	Email	gm-tv@ grandma.net	Forward
1158	TTS in Grandma's Car	grandma.net	Email	gm-car@ grandma.net	Forward
1160	Recipe Database on Grandma's Kitchen Stove	grandma.net	Email	recipes@ grandma.net	Forward
1162	Image on Grandma's PDA	grandma.net	Email	gm-PDA@ grandma.net	Forward
1164	Image on DAF in Grandma's Living Room	grandma.net	HTTP	gm-daf@ grandma.net	Transcode Here & Forward
1166	Text Overlay on DAF in Grandma's Living Room	grandma.net	HTTP	gm-daf@ grandma.net	Transcode Here & Forward
1168	Audio on Grandma's Stereo	grandma.net	HTTP	gm-stereo@ grandma.net	Transcode Here
1170	Video Somewhere Else	someother.net	Email	x@someother. net	Forward
1172	Audio Player Coupled To This Gateway	someother.net	HTTP	y@someother. net	Transcode Here & Forward
1174	TTS Somewhere Else	someother.net	Email	z@someother. net	Forward

Figure 12

Sender Authorization Records 1200 Domain: grandma.net		
Authorization Record ID 1202	Connection Address 1110	Authorized Sender 1204
1250	grandma@grandma.net	joe@grandson.net
1252	gm-tv.@grandma.net	joe@grandson.net
1254	gm-daf@grandma.net	joe@grandson.net
1256	gm-car@grandma.net	joe@grandson.net
1258	grandma@grandma.net	mike@soninlaw.net
1260	grandma@grandma.net	pete@favoritenephew.net
1262	gm-tv.@grandma.net	pete@favoritenephew.net
1264	gm-daf@grandma.net	pete@favoritenephew.net
1268	gm-car@grandma.net	pete@favoritenephew.net
1270	gm-PDA@grandma.net	pete@favoritenephew.net
1272	recipes@grandma.net	pete@favoritenephew.net

Figure 13

Authorized Display Capabilities at grandma.net for joe@grandson.net

Video on Grandma's PC (grandma@grandma.net)
Audio on Grandma's PC (grandma@grandma.net)
Video on Grandma's TV (gm-tv.@grandma.net)
Image on DAF in Grandma's Living Room (gm-daf@grandma.net)
TTS in Grandma's Car (gm-car@grandma.net)

Okay

Figure 14

Virtual Address Forwarding Records - 1500		
Virtual Address Forwarding Record ID -1502	Virtual Address 1504	Corresponding Conventional Forwarding Address 1506
1550	gm-daf@grandma.net	grandma@grandma.net
1552	gm-stereo@grandma.net	
1554	y@someother.net	z@someother.net

Figure 15

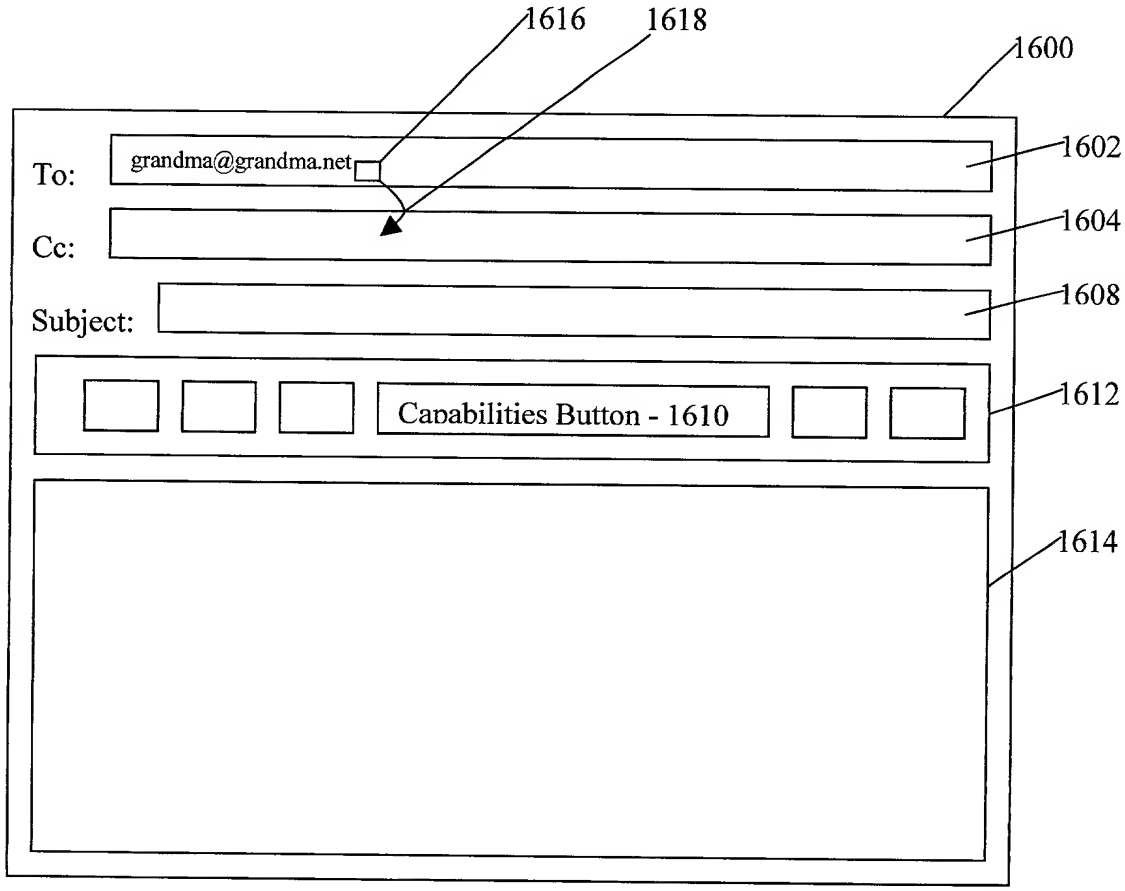

Figure 16